

AMENDMENTS TO THE CLAIMS

Please cancel claims 5-8 in accordance with the following list of claims.

1. (Previously Presented) A digital switching system, comprising:
 - multiplexing means for multiplexing time slots from a first plurality of circuits;
 - switching memory means for storing and switching data of the time slots from the multiplexing means, for one frame period;
 - switching control means including a switching correspondence means for directing interchange of the time slots stored in the switching memory means in response to a switching request from a network received through an upper layer controller; and
 - demultiplexing means for demultiplexing into a second plurality of circuits, time slot data read out of the switching memory means using as addresses data from the switching correspondence means,
 - the switching correspondence means comprising:
 - information receiving means for receiving connection information from the upper layer controller;
 - read-out controlling means for storing the connection information corresponding to before or after switching, received through the information receiving means, to addresses designated by the connection information in one of a first memory means and a second memory means, and for sequentially reading out the stored connection information in read-out order of the switching memory means;
 - network switching control means for generating a switching signal in synchronization with an internal timing standard in response to the switching request provided by the upper layer controller; and
 - read-out selection means for selecting read-out from one of the first memory means and the second memory means of the read-out controlling means in response to the switching signal provided by the network switching control means,
 - wherein with respect to the read-out controlling means, the first memory means and the second memory means are each independently capable of simultaneously writing and reading.

2. (Canceled)

3. (Previously Presented) A digital switching system according to claim 1, wherein the network switching control means generates the switching signal to coincide with a beginning of a frame.

4. (Previously Presented) A digital switching system, comprising:
multiplexing means for multiplexing time slots from a first plurality of circuits;
switching memory means for storing and switching data of the time slots from the multiplexing means, for one frame period;
switching control means including a switching correspondence means for directing interchange of the time slots stored in the switching memory means in response to a switching request from a network received through an upper layer controller; and
demultiplexing means for demultiplexing into a second plurality of circuits, time slot data read out of the switching memory means using as addresses data from the switching correspondence means,
wherein the switching correspondence means comprises:
information receiving means for receiving connection information corresponding to before or after switching from the upper layer controller;
network switching control means for generating a switching signal in synchronization with an internal timing standard in response to the switching request provided by the upper layer controller;
working memory means for storing the connection information from the information receiving means, the working memory means reading out as a read-out signal the stored connection information in response to the switching signal from the network switching control means;
read-out selection means for selecting the connection information from one of the working memory means and the information receiving means, and outputting the selected

connection information in response to the switching signal from the network switching control means; and

read-out controlling means for storing the connection data outputted by the readout selection means, and for sequentially reading out the stored connection information in read-out order of the switching memory means.

5.-8. (Canceled)

9. (Previously Presented) A digital switching system according to claim 4, wherein with respect to the switching correspondence means, the read-out controlling means is capable of simultaneously writing and reading.

10. (Previously Presented) A digital switching system according to claim 4, wherein the network switching control means generates the switching signal to coincide with a beginning of a frame.